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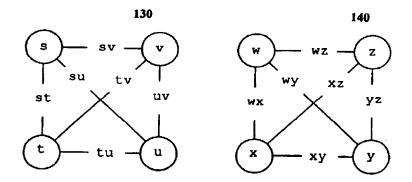


FIG 1D

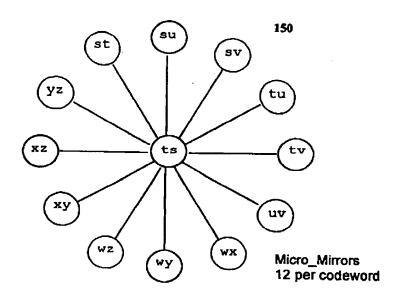
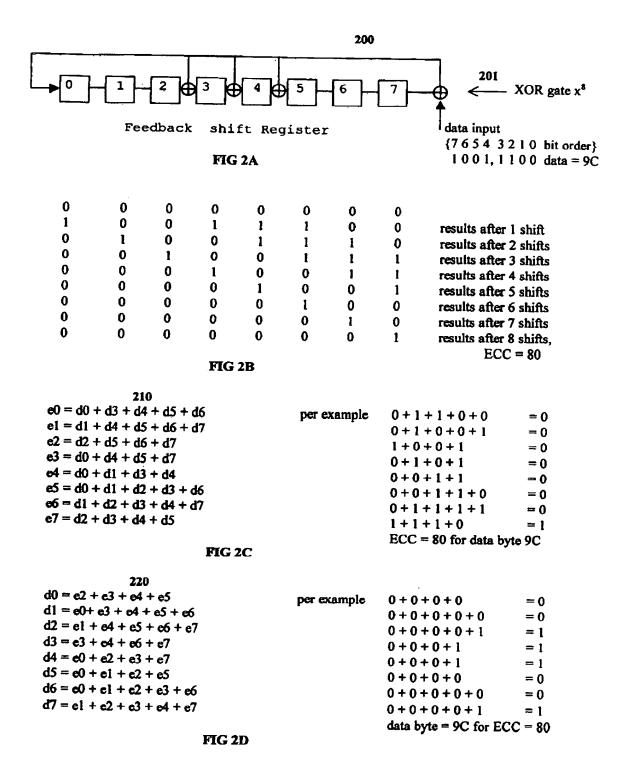


FIG 1E

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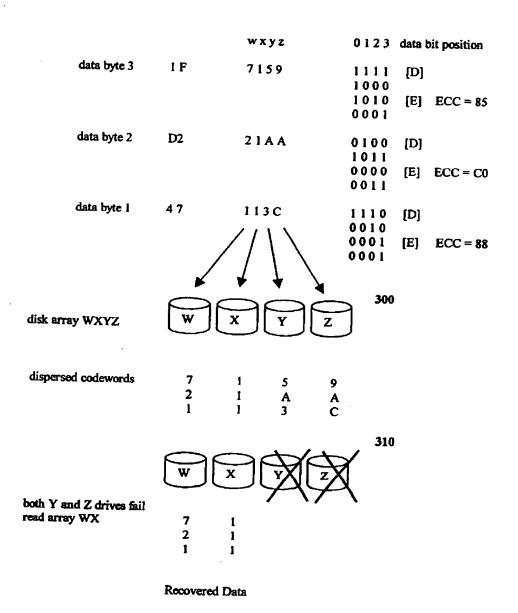
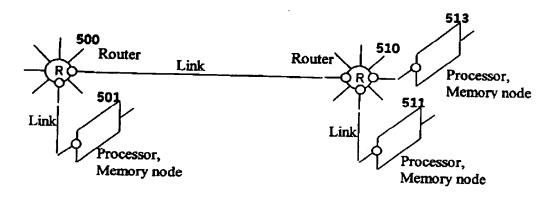


FIG 3

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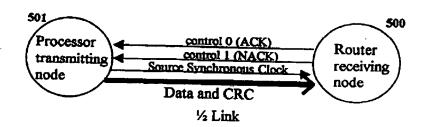


FIG 5

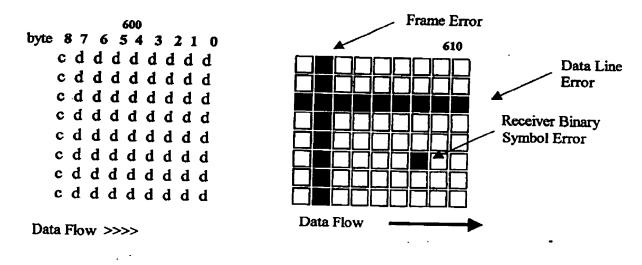


FIG 6A FIG 6B

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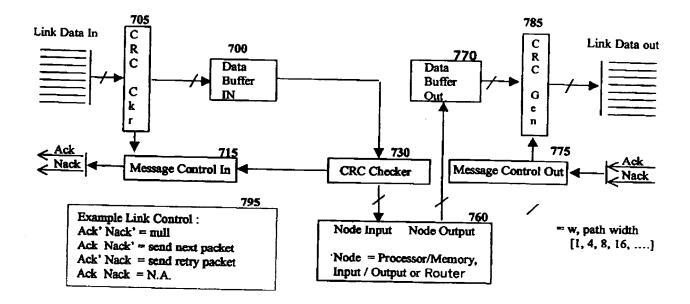


FIG 7

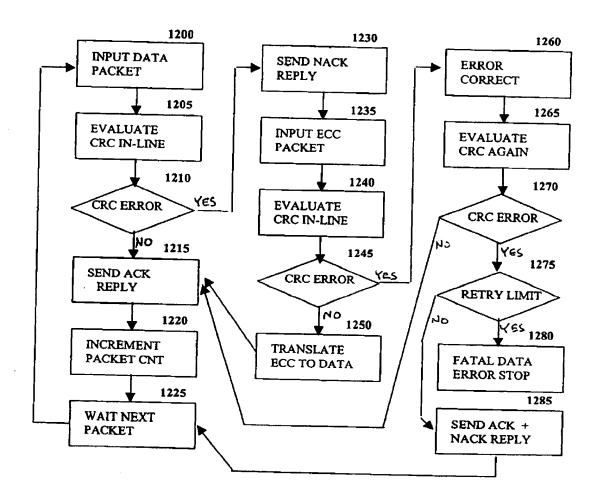


FIG 12

<<< ACK

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c6vc2v v30 c7uc3u u31 c7vc3v v31 c4uc0u u28 c4vc0v v28 c5uclu u29	v26 v22 u27 u23 v27 v23 u24 u20 v24 v20 u25 u21	1301 u18 u14 u10 v18 v14 v10 u19 u15 u11 v19 v15 v11 u16 u12 u08 v16 v12 v08 u17 u13 u09 v17 v13 v09	u06 u02 v06 v02 u07 u03 v07 v03 u04 u00 v04 v00 u05 u01	c4tc0t c5sc1s c5tc1t c6sc2s c6tc2t c7sc3s	s28 s t28 t s29 s t29 t s30 s t30 t s31 s	24 t20 25 s21 25 t21 26 s22 26 t22 27 s23	s16 s1 t16 t1 s17 s1 t17 t1 s18 s1 t18 t1 s19 s1	2 t08 3 s09 3 t09 4 s10 4 t10 5 s11	s04 t04 s05 t05 s06 t06 s07	t00 s01 t01 s02 t02
	Flow >>>		<< NACK	c/tc3t	t31 t	27 t23	t19 t1:		t07 <<< A	

FIG 13

-C0 - 20	[E]	1	401					[D]			1	400	j	
c6uc2u u30	u26 u22	u18 u14	u10	u06	u02	c4sc0s	s 28	s24	s20	s 16	sl2	s 08	s04	500
c6vc2v v30 c7uc3u u31	NZO VZZ	N18 N14	V10	v06	v 02	c4tc0t	t28	t24	t20	t16	t12	t08	t04	t00
c7vc3v v31	v27 v23	v19 v15	v11	u07	u03	c5scls c5tclt	529 +20	S25	\$21 521	s17	sl3	s09	s05	s 01
c4uc0u u28	u24 u20	u16 u12	2 u08	u04	2200	c6sc2s	830	826	822	41R	014	£09	t05	t01
c4vc0v v28	v24 v20	v16 v12	80v	v04	V00	c6tc2t	t30	t26	t22	t18	t14	t10	±06	±02
c5uclu u29	u25 u21	u17 u13	u09	u05	u01	c7sc3s	s 31	s27	\$23	s19	s1 5	s 11	s07	903
c5vc1v v29	V25 V21	V1/ V13	v 09	v 05	v 0.1	c7tc3t	t31	t27	t23	t19	t15	t11	t07	t03

FIG 14

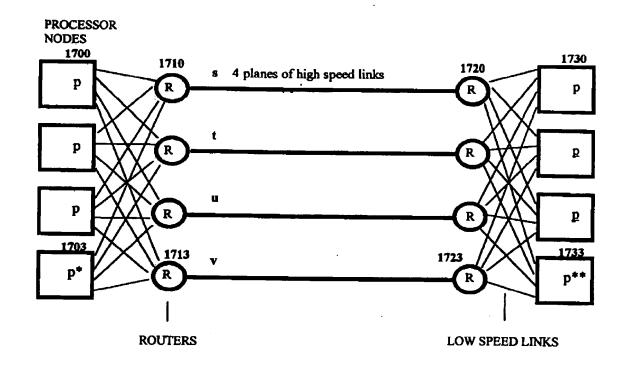
<<< NACK

Data Flow >>>

Begin with Byte 00 Transmitted s00t00 = 18h (data = ts = 81h)u00v00 = 77h (ECC = vu = 77h)Received s00t00 = 1Ah (data = ts = A1h)u00v00 = 75h (ECC = vu = 57h)So correction proceeds exactly as before in Figure 8 for byte 00. All 32 bytes are assembled and corrected then verified via the CRC checkcode comparison.

	<u>E</u> CC	Data
Data byte 00 input in error is		$10\overline{1000}01 = A1 \text{ hex.}$
The ECC for A1 is F8	$1\ 1\ 1\ 1\ 1\ 0\ 0\ 0 = F8\ hex.$	
ECC byte 00 input in error is	$0\ 1\ 0\ 1\ 0\ 1\ 1\ 1 = 57\ \text{hex.}$	
The ECC syndrome	10101111 = AF hex.	
E.P. from Table $1 = d5 \& e5$		nd 0010000 = d5
After corrections data $= 81$ hex.	01110111 = 77 hex. a	10000001 = 81 hex

FIG 14A



data encoded with ECC	data dispersed across 4 planes	data assembly data verification and recovery and correction
- 21	e⁴e⁵e ⁶ e ⁷ v	uv
$[E_i] e^0 e^1 e^2 e^3 e^4 e^5 e^6 e^7$ = uv	$e^0e^1e^2e^3$ u	tu uv tv
	d ⁴ d ⁵ d ⁶ d ⁷ t	su sv st st=[D _i]
[D ₁] d ⁰ d ¹ d ² d ³ d ⁴ d ⁵ d ⁶ d ⁷ = st	$d^0d^1d^2d^3$ s	

FIG 17